SEQ-120

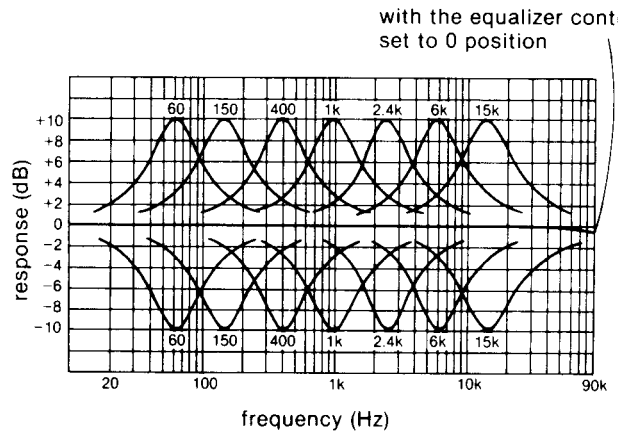
SERVICE MANUAL

US Model
AEP Model
E Model

SPECIFICATIONS

Power requirement	AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz US model: 120 V ac, 60 Hz E model: 110 – 120 or 220 – 240 V ac adjustable, 50/60 Hz
Power consumption	5 W
AC outlet	AEP model: 100 W switched US, E model: 100 W unswitched
Inputs	LINE IN (phono type) 245 mV (-10 dBs)/50 kilohms TAPE (phono type) 245 mV (-10 dBs)/50 kilohms
Outputs	LINE OUT (phono type) 245 mV (-10 dBs) Output impedance 470 ohms TAPE (phono type) 245 mV (-10 dBs) Output impedance 4.7 kilohms
Graphic equalizer	Boost/cut range ±10 dB Center frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz
Frequency response	LINE 20 Hz – 50 kHz $^{+0}_{-1.5}$ dB
Distortion	LINE Less than 0.01% (1 V output, 1 kHz)
Signal-to-noise ratio	LINE More than 100 dB (IHF-A, 1 V output)
Dimensions	AEP model: Approx. 430 x 80 x 262 mm (w/h/d) (17 x 3 1/4 x 10 3/8 inches) US, E model: Approx. 430 x 80 x 255 mm (w/h/d) (17 x 3 1/4 x 10 1/8 inches) including projecting parts and controls
Weight	Approx. 2.4 kg (5 lb 5 oz), net Approx. 2.8 kg (6 lbs 3 oz), in shipping carton

Equalization characteristics



0dBs = 0.775V

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

GRAPHIC EQUALIZER

SONY®

AUD

MC-Service

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

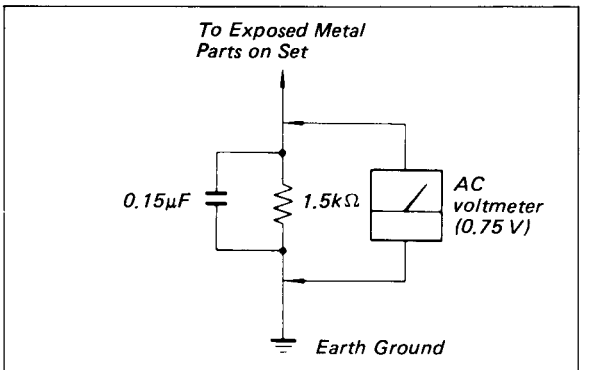
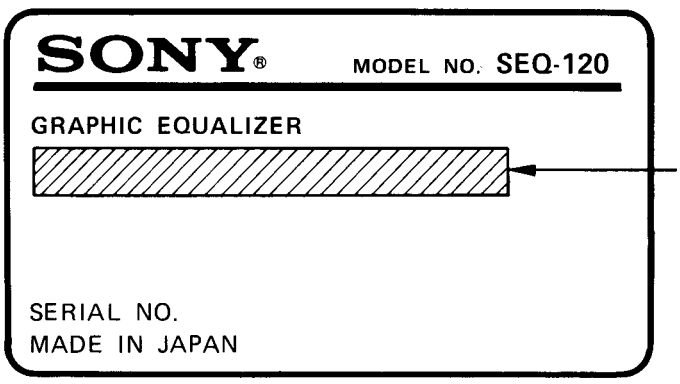


Fig. A. Using an AC voltmeter to check AC leakage.

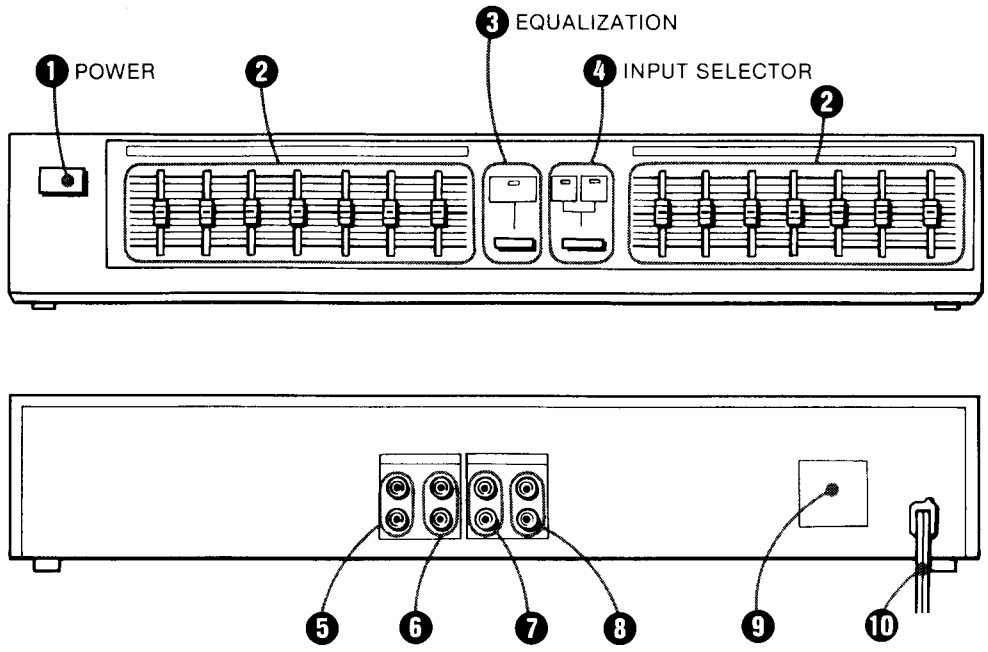
MODEL IDENTIFICATION

– Specification Label –



US model: AC 120 V 60 Hz 5 W
AEP model: AC 220 V 50/60 Hz 5 W
E model: AC 110 – 120/220 – 240 ~ 50/60 Hz 5 W

LOCATION AND FUNCTION OF CONTROLS



Front panel

❶ POWER switch

❷ Equalizer controls
Slide upwards or downwards to equalize the signal selected by the INPUT SELECTOR button.

❸ EQUALIZATION button and indicator
Depress this button to add the set equalization values. The associated indicator will light up.
To cut equalization, release the button (indicator off).

❹ INPUT SELECTOR button and indicators
Press the button to select the input source to equalize or to listen to. The indicator above the button will light up.
LINE: For playback output from the turntable, CD (compact disc) player or tuner connected to the amplifier.
TAPE: For playback output from the tape deck connected to the TAPE RECORDER TAPE jacks.

Rear panel

❺ LINE IN jacks
Connect these jacks to the tape output or GRAPHIC EQ OUT jacks of the amplifier.

❻ LINE OUT jacks
Connect these jacks to the tape input or GRAPHIC EQ IN jacks of the amplifier.

❼ TAPE RECORDER REC OUT jacks
When a tape deck is connected for recording, connect these jacks to the line input jacks of the deck.

❽ TAPE RECORDER TAPE jacks
When a tape deck is connected for playback, connect these jacks to the line output jacks of the deck.

❾ AC OUTLET
This outlet is used for connecting the power cord of compact disc player, tuner, tape deck or other program sources.
SWITCHED (AEP model): This outlet interlocks with the POWER switch of the graphic equalizer: the power on/off of the connected equipment can be controlled by the POWER switch of the equalizer, when the power switch of the connected equipment is set to ON.
This is convenient when the program source to be played frequently is connected to this outlet. The power consumption is 100W.
UNSWITCHED (US, E model): This outlet provides power irrespective of whether the POWER switch of the equalizer is ON or OFF. Connect equipment with a power consumption of 100W maximum to this outlet.

❿ Power cord

SECTION 1
DIAGRAMS

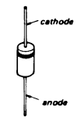
- **Semiconductor Lead Layouts**

M5218L

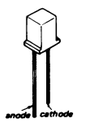
2SA1015
2SC1815-Y

2SC2785

10E-2



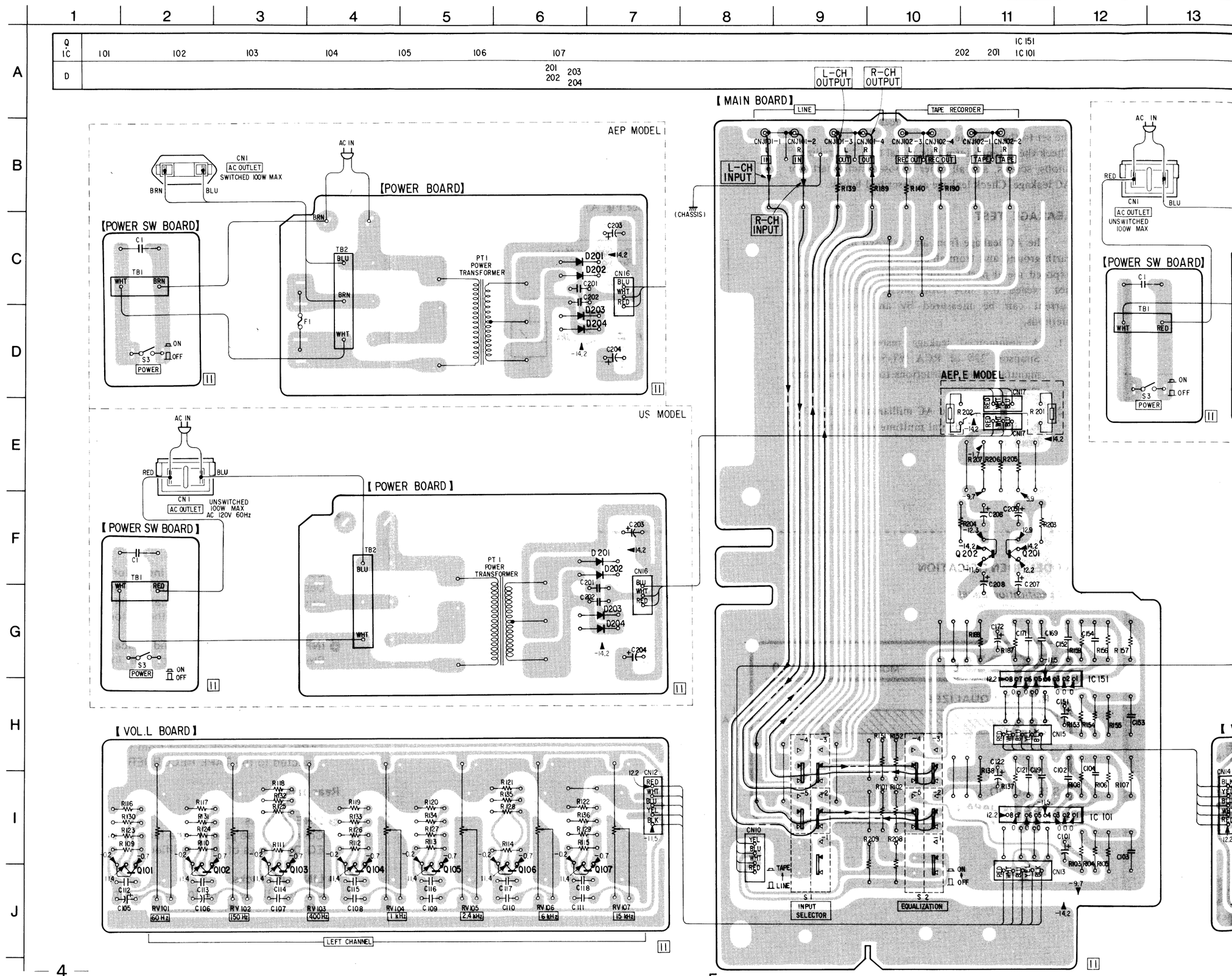
GL-9HY4
GL-9NG4A



Note:

- ○— : parts extracted from the component side.
- ▬▶▬ : signal path
- ▬·▶▬ : L-CH signal path
- ▬··▶▬ : R-CH signal path
- : B+ pattern

1-1. MOUNTING DIAGRAM — *Conductor Side* —


1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J
Q IC
D
101 102 103 104 105 106 107
201 202 203 204
202 201 IC 151 IC 101
AEP MODEL
AC IN
CN1 AC OUTLET SWITCHED 100W MAX
BRN BLU
【POWER BOARD】
【POWER SW BOARD】
C1 TB1 WHT BRN
TB2 BLU BRN WHT
F1
PT1 POWER TRANSFORMER
D201 D202 D203 D204 14.2
C201 C202 C203 C204
CN16 BLU WHT RED
ON OFF S3 POWER
US MODEL
AC IN
RED BLU
CN1 AC OUTLET UNSWITCHED 100W MAX AC 120V 60Hz
【POWER BOARD】
【POWER SW BOARD】
C1 TB1 WHT RED
TB2 BLU WHT
PT1 POWER TRANSFORMER
D201 D202 D203 D204 14.2
C201 C202 C203 C204
CN16 BLU WHT RED
S3 POWER ON OFF
【VOL.L BOARD】
R116 R130 R123 R109 Q101 C112 C105 RV101 60 Hz
R117 R131 R124 R110 Q102 C113 C106 RV102 150 Hz
R118 R132 R125 R111 Q103 C114 C107 RV103 400Hz
R119 R133 R126 R112 Q104 C115 C108 RV104 1 kHz
R120 R134 R127 R113 Q105 C116 C109 RV105 2.4 kHz
R121 R135 R128 R114 Q106 C117 C110 RV106 6 kHz
R122 R136 R129 R115 Q107 C118 C111 RV107 15 kHz
CN12 RED WHT BLU YEL BLK
LEFT CHANNEL
【MAIN BOARD】
LINE
TAPE RECORDER
L-CH OUTPUT
R-CH OUTPUT
L-CH INPUT
R-CH INPUT
(CHASSIS)
CNJ101-1 CNJ101-2 CNJ101-3 CNJ101-4 CNJ102-3 CNJ102-4 CNJ102-1 CNJ102-2
IN OUT REC OUT TAPE
R139 R189 R140 R190
AEP,E MODEL
CN17
R 202 R 201
R207 R206 R205
R204 R203
C206 C205 C208 C207
Q 202 Q 201
R158 C172 C171 C169 C154 R156 R157
C152 R159 R155
IC 151
C151 R153 R154 C153
CN15
C122 C121 C119 C102 C104 R138 R137 R108 R106 R107
IC 101
C101 R103 R104 R105 C103
CN13
CN10 YEL BLU WHT RED
TAPE LINE
S 1 INPUT SELECTOR
S 2 EQUALIZATION
ON OFF
AC IN
RED BLU
CN1 AC OUTLET UNSWITCHED 100W MAX
【POWER SW BOARD】
C1 TBI WHT RED
S3 POWER ON OFF

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

104 105 106 107 202 201 IC 151 IC 101 151 152 153 154 155 156 157 Q IC D

201 202 203 204 207 206 205 201 202 203 204

A B C D E F G H I J

AEP MODEL

AC IN

【POWER BOARD】

TB2 BLU BRN WHT

PT1 POWER TRANSFORMER

D201 D202 D203 D204 C201 C202 C203 C204 CN16 BLU WHT RED

-14.2

II

US MODEL

【POWER BOARD】

TB2 BLU WHT

PT1 POWER TRANSFORMER

D201 D202 D203 D204 C201 C202 C203 C204 CN16 BLU WHT RED

-14.2

II

【MAIN BOARD】

LINE TAPE RECORDER

CNJ101-1 CNJ101-2 CNJ101-3 CNJ101-4 CNJ102-3 CNJ102-4 CNJ102-1 CNJ102-2

L-CH INPUT R-CH INPUT (CHASSIS)

L-CH OUTPUT R-CH OUTPUT

IN OUT REC OUT TAPE

R139 R189 R140 R190

AEP,E MODEL

CN17 R202 R201 -14.2

R207 R206 R205 9.7 5.9

C206 C205 C208 C207 R204 12.3 R203 12.9

Q202 Q201 -14.2 11.5 12.2

R188 C172 C171 C169 C152 C154 R56 R157 R187 R158 R155

IC 151 12.2

C151 R153 R154 R155 C153 CN15

C122 C121 C119 C102 C104 R138 R137 R108 R106 R107

R101 R102 R121 R152 R151

IC 101 12.2

CN10 YEL BLU WHT RED TAPE LINE

R209 R208 R103 R104 R105 C103 CN13 -9.7

S1 INPUT SELECTOR

S2 EQUALIZATION ON OFF

-14.2

II

E MODEL

AC IN

VSI VOLTAGE SELECTOR 220—240V 110—120V

RED VIO BLU ORG

CN1 AC OUTLET UNSWITCHED 100W MAX

【POWER SW BOARD】

C1 TB1 WHT RED S3 POWER ON OFF

F1

【POWER BOARD】

TB2 VIO WHT ORG

PT1 POWER TRANSFORMER

D201 D202 D203 D204 C201 C202 C203 C204 CN16 BLU WHT RED

-14.2

II

【LED BOARD】

-14.2

LED D207 ON:-9.8 OFF:-11.9 D207 EQ

D206 TAPE

LED D206 ON:-11.9 OFF:-14 D205 LINE

CN11 YEL BLU WHT RED

II

【VOL.R BOARD】

CN14 BLK YEL BLU WHT RED 11.5 12.2

C155 C156 C157 C158 C159 C160 C161 C162 C163 C164 C165 C166 C167 C168 11.4

Q151 Q152 Q153 Q154 Q155 Q156 Q157 -0.7 -0.2

R159 R160 R161 R162 R163 R164 R165 R173 R175 R176 R178 R179 R180 R182 R183 R185 R186 R166 R168 R169 R171 R172 R174 R181 R167 R177 R184 R170

RV151 60 Hz RV 152 150 Hz R153 400 Hz RV 154 1 kHz RV155 2.4 kHz RV156 6 kHz RV157 15 kHz

RIGHT CHANNEL

II

R119 R133 R126 R112 Q104 C115 C108 RV104 1 kHz

R120 R134 R127 R113 Q105 C116 C109 RV105 2.4 kHz

R121 R135 R128 R114 Q106 C117 C110 RV106 6 kHz

R122 R136 R129 R115 Q107 C118 C111 RV107 15 kHz

12.2 CN12 RED WHT BLU YEL GRN BLK -11.5

LEFT CHANNEL

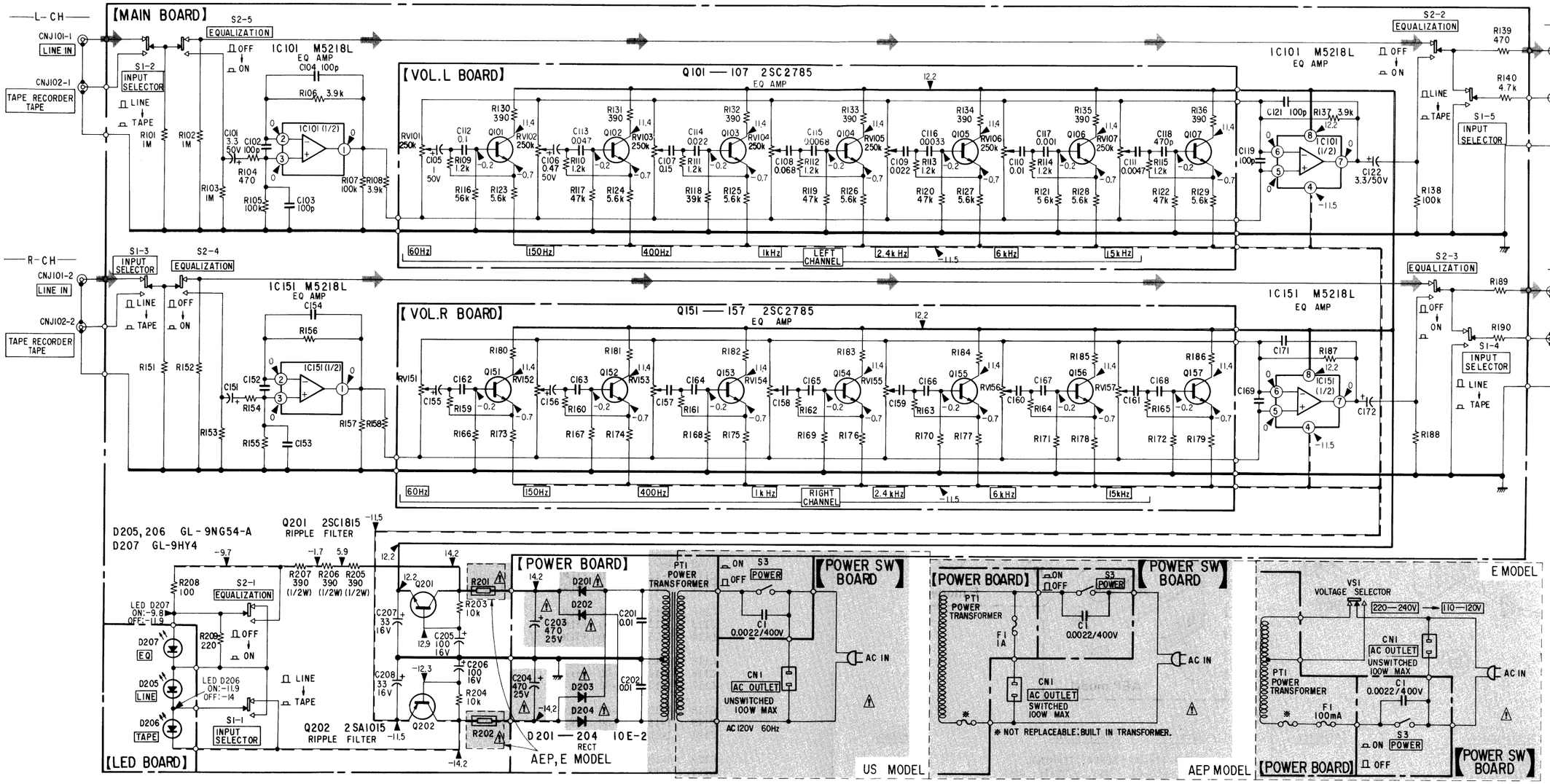
II

— 5 —

— 6 —

MC-Service

1-2. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ➡ : signal path.
- Components for right channel have same values as for left channel.
- ——: B+ bus.
- – – –: B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50kΩ/V).
- Voltage variations may be noted due to normal production tolerances.

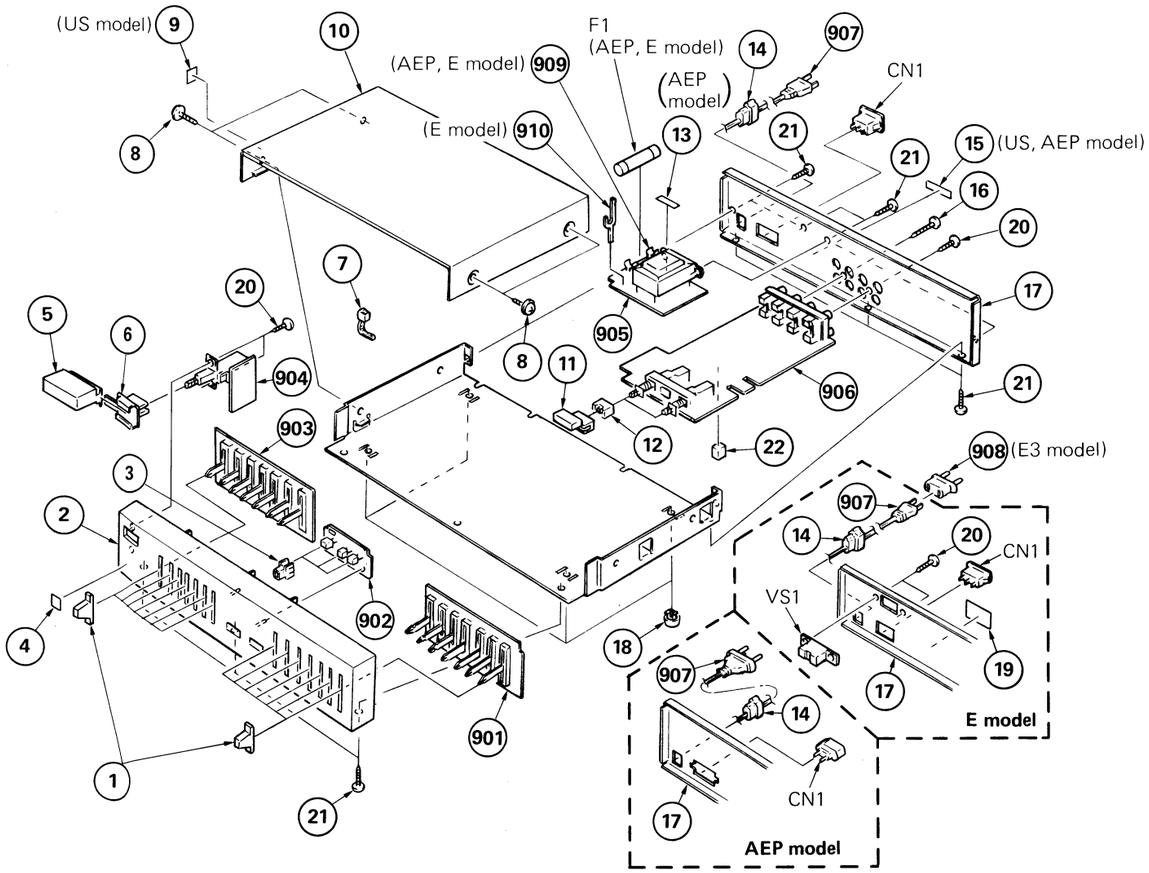
Note: Voltages are measured with a VOM (50kΩ/V).

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 2
EXPLODED VIEW AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



No.	Part No.	Description	REMARKS
1	4-905-462-01	KNOB, SLIDE	
2	X-4905-414-1	(SILVER)...PANEL ASSY	
	X-4905-415-1	(BLACK)....PANEL ASSY	
3	*4-904-475-01	HOLDER, LED	
4	3-703-713-01	STICKER, SONY SYMBOL (10)	
5	3-318-911-01	(SILVER)...KNOB (POWER.L), T MOLD	
	3-318-911-11	(BLACK)....KNOB (POWER.L), T MOLD	
6	*4-902-831-01	JOINT (G), KNOB	
7	*3-701-748-00	CLAMP	
8	4-889-321-01	(SILVER)...SCREW	
	4-889-321-11	(BLACK)....SCREW	
9	*3-703-680-00	(US)....LABEL, CAUTION, SUB, NEW UL	
10	4-905-463-01	(SILVER)...CASE	
	4-905-463-11	(BLAK).....CASE	
11	4-864-349-00	KNOB, SQUARE	
12	4-864-307-00	RING	
13	3-701-948-14	(AEP)....LABEL FUSE	
14	3-703-244-00	(AEP)....BUSHING (2104), CORD	
	3-703-571-00	(US,E)...BUSHING (S)(4516), CORD	
15	*4-302-759-00	(US,AEP)...LABEL, SERIAL NUMBER	

No.	Part No.	Description	REMARKS
16	3-703-473-00	SCREW, TERMINAL	
17	*4-905-453-01	(US)....PLATE, JACK	
	*4-905-453-11	(E).....PLATE, JACK	
	*4-905-453-21	(AEP)...PLATE, JACK	
18	X-3701-069-0	FOOT ASSY, M.F	
19	4-905-452-01	(E)...LABEL, MODEL NUMBER	
20	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S	
21	7-685-871-01	SCREW +BVTT 3X6 (S)	
901	*1-615-672-11	PC BOARD, VOL.R	
902	*1-615-674-11	PC BOARD, LED	
903	*1-615-671-11	PC BOARD, VOL.L	
904	*1-615-675-11	PC BOARD, POWER SW	
905	*1-615-673-11	PC BOARD, POWER	
906	*1-615-670-11	PC BOARD, MAIN	
907	⚠1-534-817-XX	(AEP)...CORD, POWER	
	⚠1-551-472-00	(E).....CORD, POWER	
	⚠1-551-628-00	(US)....CORD, POWER	
908	⚠1-526-565-00	(E3).....AC PLUG ADAPTOR	
909	⚠1-533-162-00	(AEP,E)...HOLDER, FUSE	
910	1-535-416-00	(AEP).....TERMINAL	

SECTION 3
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-615-672-11	PC BOARD, VOL.R			
902	*1-615-674-11	PC BOARD, LED			
903	*1-615-671-11	PC BOARD, VOL.L			
904	*1-615-675-11	PC BOARD, POWER SW			
905	*1-615-673-11	PC BOARD, POWER			
906	*1-615-670-11	PC BOARD, MAIN			
907	⚠1-534-817-XX	(AEP)...CORD, POWER			
	⚠1-551-472-00	(E).....CORD, POWER			
	⚠1-551-628-00	(US)....CORD, POWER			
908	⚠1-526-565-00	(E3).....AC PLUG ADAPTOR			
909	⚠1-533-162-00	(AEP,E)...HOLDER, FUSE			
910	1-535-416-00	(AEP).....TERMINAL			
C1	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C101	1-123-382-00	ELECT	3.3MF	20%	50V
C102	1-161-271-00	CERAMIC	100PF	5%	50V
C103	1-161-271-00	CERAMIC	100PF	5%	50V
C104	1-161-271-00	CERAMIC	100PF	5%	50V
C105	1-123-611-00	ELECT	1MF	20%	50V
C106	1-123-610-00	ELECT	0.47MF	20%	50V
C107	1-136-167-00	FILM	0.15MF	5%	50V
C108	1-136-163-00	FILM	0.068MF	5%	50V
C109	1-136-157-00	FILM	0.022MF	5%	50V
C110	1-136-153-00	FILM	0.01MF	5%	50V
C111	1-130-479-00	MYLAR	0.0047MF	5%	50V
C112	1-136-165-00	FILM	0.1MF	5%	50V
C113	1-136-161-00	FILM	0.047MF	5%	50V
C114	1-136-157-00	FILM	0.022MF	5%	50V
C115	1-130-481-00	MYLAR	0.0068MF	5%	50V
C116	1-130-477-00	MYLAR	0.0033MF	5%	50V
C117	1-130-471-00	MYLAR	0.001MF	5%	50V
C118	1-130-467-00	MYLAR	470PF	5%	50V
C119	1-161-271-00	CERAMIC	100PF	5%	50V
C121	1-161-271-00	CERAMIC	100PF	5%	50V
C122	1-123-382-00	ELECT	3.3MF	20%	50V
C151	1-123-382-00	ELECT	3.3MF	20%	50V
C152	1-161-271-00	CERAMIC	100PF	5%	50V
C153	1-161-271-00	CERAMIC	100PF	5%	50V
C154	1-161-271-00	CERAMIC	100PF	5%	50V
C155	1-123-611-00	ELECT	1MF	20%	50V
C156	1-123-610-00	ELECT	0.47MF	20%	50V
C157	1-136-167-00	FILM	0.15MF	5%	50V
C158	1-136-163-00	FILM	0.068MF	5%	50V
C159	1-136-157-00	FILM	0.022MF	5%	50V
C160	1-136-153-00	FILM	0.01MF	5%	50V
C161	1-130-479-00	MYLAR	0.0047MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C162	1-136-165-00	FILM	0.1MF	5%	50V
C163	1-136-161-00	FILM	0.047MF	5%	50V
C164	1-136-157-00	FILM	0.022MF	5%	50V
C165	1-130-481-00	MYLAR	0.0068MF	5%	50V
C166	1-130-477-00	MYLAR	0.0033MF	5%	50V
C167	1-130-471-00	MYLAR	0.001MF	5%	50V
C168	1-130-467-00	MYLAR	470PF	5%	50V
C169	1-161-271-00	CERAMIC	100PF	5%	50V
C171	1-161-271-00	CERAMIC	100PF	5%	50V
C172	1-123-382-00	ELECT	3.3MF	20%	50V
C201	1-101-004-00	CERAMIC	0.01MF		50V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	⚠1-123-336-00	ELECT	470MF	20%	25V
C204	⚠1-123-336-00	ELECT	470MF	20%	25V
C205	1-123-333-00	ELECT	100MF	20%	16V
C206	1-123-333-00	ELECT	100MF	20%	16V
C207	1-123-318-00	ELECT	33MF	20%	16V
C208	1-123-318-00	ELECT	33MF	20%	16V
CN1	⚠1-526-774-11	(US,E).....OUTLET, AC			
CN1	⚠1-526-794-11	(AEP).....OUTLET, AC			
CN10	*1-562-249-00	SOCKET, CONNECTOR 4P			
CN11	*1-562-249-00	SOCKET, CONNECTOR 4P			
CN12	*1-562-250-00	SOCKET, CONNECTOR 5P			
CN13	*1-562-250-00	SOCKET, CONNECTOR 5P			
CN14	*1-562-250-00	SOCKET, CONNECTOR 5P			
CN15	*1-562-250-00	SOCKET, CONNECTOR 5P			
CN16	*1-562-327-00	SOCKET, CONNECTOR 3P			
CN17	*1-562-327-00	SOCKET, CONNECTOR 3P			
CNJ101	1-507-788-00	JACK, PIN 4P			
CNJ102	1-507-788-00	JACK, PIN 4P			
D201	⚠8-719-200-02	DIODE 10E-2			
D202	⚠8-719-200-02	DIODE 10E-2			
D203	⚠8-719-200-02	DIODE 10E-2			
D204	⚠8-719-200-02	DIODE 10E-2			
D205	8-719-919-70	DIODE GL-9NG4A			
D206	8-719-919-70	DIODE GL-9NG4A			
D207	8-719-915-50	DIODE GL-9HY4			
F1	⚠1-532-078-00	(AEP)....FUSE, TIME-LAG			
F1	⚠1-532-610-XX	(E).....FUSE, TIME-LAG			
IC101	8-759-600-02	IC M5218L			
IC151	8-759-600-02	IC M5218L			
PT1	⚠1-448-143-11	(US)....TRANSFORMER, POWER			
PT1	⚠1-448-144-11	(AEP)...TRANSFORMER, POWER			
PT1	⚠1-448-145-11	(E).....TRANSFORMER, POWER			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q101	8-729-178-55	TRANSISTOR 2SC2785-E			
Q102	8-729-178-55	TRANSISTOR 2SC2785-E			
Q103	8-729-178-55	TRANSISTOR 2SC2785-E			
Q104	8-729-178-55	TRANSISTOR 2SC2785-E			
Q105	8-729-178-55	TRANSISTOR 2SC2785-E			
Q106	8-729-178-55	TRANSISTOR 2SC2785-E			
Q107	8-729-178-55	TRANSISTOR 2SC2785-E			
Q151	8-729-178-55	TRANSISTOR 2SC2785-E			
Q152	8-729-178-55	TRANSISTOR 2SC2785-E			
Q153	8-729-178-55	TRANSISTOR 2SC2785-E			
Q154	8-729-178-55	TRANSISTOR 2SC2785-E			
Q155	8-729-178-55	TRANSISTOR 2SC2785-E			
Q156	8-729-178-55	TRANSISTOR 2SC2785-E			
Q157	8-729-178-55	TRANSISTOR 2SC2785-E			
Q201	8-729-281-52	TRANSISTOR 2SC1815-Y			
Q202	8-729-201-52	TRANSISTOR 2SA1015			
R101	1-246-545-00	CARBON	1M	5%	1/4W
R102	1-246-545-00	CARBON	1M	5%	1/4W
R103	1-246-545-00	CARBON	1M	5%	1/4W
R104	1-247-123-00	CARBON	470	5%	1/4W
R105	1-247-179-00	CARBON	100K	5%	1/4W
R106	1-247-145-00	CARBON	3.9K	5%	1/4W
R107	1-247-179-00	CARBON	100K	5%	1/4W
R108	1-247-145-00	CARBON	3.9K	5%	1/4W
R109	1-247-833-00	CARBON	1.2K	5%	1/6W
R110	1-247-833-00	CARBON	1.2K	5%	1/6W
R111	1-247-833-00	CARBON	1.2K	5%	1/6W
R112	1-247-833-00	CARBON	1.2K	5%	1/6W
R113	1-247-833-00	CARBON	1.2K	5%	1/6W
R114	1-247-833-00	CARBON	1.2K	5%	1/6W
R115	1-247-833-00	CARBON	1.2K	5%	1/6W
R116	1-247-873-00	CARBON	56K	5%	1/6W
R117	1-247-871-00	CARBON	47K	5%	1/6W
R118	1-247-869-00	CARBON	39K	5%	1/6W
R119	1-247-871-00	CARBON	47K	5%	1/6W
R120	1-247-871-00	CARBON	47K	5%	1/6W
R121	1-247-873-00	CARBON	56K	5%	1/6W
R122	1-247-871-00	CARBON	47K	5%	1/6W
R123	1-247-849-00	CARBON	5.6K	5%	1/6W
R124	1-247-849-00	CARBON	5.6K	5%	1/6W
R125	1-247-849-00	CARBON	5.6K	5%	1/6W
R126	1-247-849-00	CARBON	5.6K	5%	1/6W
R127	1-247-849-00	CARBON	5.6K	5%	1/6W
R128	1-247-849-00	CARBON	5.6K	5%	1/6W
R129	1-247-849-00	CARBON	5.6K	5%	1/6W
R130	1-247-821-00	CARBON	390	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R131	1-247-821-00	CARBON	390	5%	1/6W
R132	1-247-821-00	CARBON	390	5%	1/6W
R133	1-247-821-00	CARBON	390	5%	1/6W
R134	1-247-821-00	CARBON	390	5%	1/6W
R135	1-247-821-00	CARBON	390	5%	1/6W
R136	1-247-821-00	CARBON	390	5%	1/6W
R137	1-247-145-00	CARBON	3.9K	5%	1/4W
R138	1-247-179-00	CARBON	100K	5%	1/4W
R139	1-247-123-00	CARBON	470	5%	1/4W
R140	1-247-147-00	CARBON	4.7K	5%	1/4W
R151	1-246-545-00	CARBON	1M	5%	1/4W
R152	1-246-545-00	CARBON	1M	5%	1/4W
R153	1-246-545-00	CARBON	1M	5%	1/4W
R154	1-247-123-00	CARBON	470	5%	1/4W
R155	1-247-179-00	CARBON	100K	5%	1/4W
R156	1-247-145-00	CARBON	3.9K	5%	1/4W
R157	1-247-179-00	CARBON	100K	5%	1/4W
R158	1-247-145-00	CARBON	3.9K	5%	1/4W
R159	1-247-833-00	CARBON	1.2K	5%	1/6W
R160	1-247-833-00	CARBON	1.2K	5%	1/6W
R161	1-247-833-00	CARBON	1.2K	5%	1/6W
R162	1-247-833-00	CARBON	1.2K	5%	1/6W
R163	1-247-833-00	CARBON	1.2K	5%	1/6W
R164	1-247-833-00	CARBON	1.2K	5%	1/6W
R165	1-247-833-00	CARBON	1.2K	5%	1/6W
R166	1-247-873-00	CARBON	56K	5%	1/6W
R167	1-247-871-00	CARBON	47K	5%	1/6W
R168	1-247-869-00	CARBON	39K	5%	1/6W
R169	1-247-871-00	CARBON	47K	5%	1/6W
R170	1-247-871-00	CARBON	47K	5%	1/6W
R171	1-247-873-00	CARBON	56K	5%	1/6W
R172	1-247-871-00	CARBON	47K	5%	1/6W
R173	1-247-849-00	CARBON	5.6K	5%	1/6W
R174	1-247-849-00	CARBON	5.6K	5%	1/6W
R175	1-247-849-00	CARBON	5.6K	5%	1/6W
R176	1-247-849-00	CARBON	5.6K	5%	1/6W
R177	1-247-849-00	CARBON	5.6K	5%	1/6W
R178	1-247-849-00	CARBON	5.6K	5%	1/6W
R179	1-247-849-00	CARBON	5.6K	5%	1/6W
R180	1-247-821-00	CARBON	390	5%	1/6W
R181	1-247-821-00	CARBON	390	5%	1/6W
R182	1-247-821-00	CARBON	390	5%	1/6W
R183	1-247-821-00	CARBON	390	5%	1/6W
R184	1-247-821-00	CARBON	390	5%	1/6W
R185	1-247-821-00	CARBON	390	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R186	1-247-821-00	CARBON	390	5%	1/6W
R187	1-247-145-00	CARBON	3.9K	5%	1/4W
R188	1-247-179-00	CARBON	100K	5%	1/4W
R189	1-247-123-00	CARBON	470	5%	1/4W
R190	1-247-147-00	CARBON	4.7K	5%	1/4W
R201	⚠1-806-884-11	(AEP,E)...THERMISTOR (POSITIVE)			
R202	⚠1-806-884-11	(AEP,E)...THERMISTOR (POSITIVE)			
R203	1-247-155-00	CARBON	10K	5%	1/4W
R204	1-247-155-00	CARBON	10K	5%	1/4W
R205	1-247-230-00	CARBON	390	5%	1/2W
R206	1-247-230-00	CARBON	390	5%	1/2W
R207	1-247-230-00	CARBON	390	5%	1/2W
R208	1-247-107-00	CARBON	100	5%	1/4W
R209	1-247-115-00	CARBON	220	5%	1/4W
RV101	1-230-804-11	RES, VAR, SLIDE 250K, (60Hz)			
RV102	1-230-804-11	RES, VAR, SLIDE 250K, (150Hz)			
RV103	1-230-804-11	RES, VAR, SLIDE 250K, (400Hz)			
RV104	1-230-804-11	RES, VAR, SLIDE 250K, (1kHz)			
RV105	1-230-804-11	RES, VAR, SLIDE 250K, (2.4kHz)			
RV106	1-230-804-11	RES, VAR, SLIDE 250K, (6kHz)			
RV107	1-230-804-11	RES, VAR, SLIDE 250K, (15kHz)			
RV151	1-230-804-11	RES, VAR, SLIDE 250K, (60Hz)			
RV152	1-230-804-11	RES, VAR, SLIDE 250K, (150Hz)			
RV153	1-230-804-11	RES, VAR, SLIDE 250K, (400Hz)			
RV154	1-230-804-11	RES, VAR, SLIDE 250K, (1kHz)			
RV155	1-230-804-11	RES, VAR, SLIDE 250K, (2.4kHz)			
RV156	1-230-804-11	RES, VAR, SLIDE 250K, (6kHz)			
RV157	1-230-804-11	RES, VAR, SLIDE 250K, (15kHZ)			
S1	1-570-238-11	SWITCH, PUSH (2 KEY), (INPUT SELECTOR)			
S2	1-570-238-11	SWITCH, PUSH (2 KEY), (EQUALIZATION)			
S3	⚠1-553-318-51	SWITCH, PUSH (1 KEY), (AC POWER)			
TB1	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
TB2	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P			
VS1	⚠1-552-536-00	(E)...SWITCH, POWER & VOLTAGE CHANGE			

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-551-734-11	CORD, CONNECTION (RK-74A)
3-701-630-00	BAG, POLYETHYLENE
3-703-895-01	(BLACK)....LABEL, COLOR
3-703-906-01	(SILVER)...LABEL, COLOR
3-760-434-11	(AEP,E)...MANUAL, INSTRUCTION
3-760-434-21	(US).....MANUAL, INSTRUCTION
3-760-434-41	(AEP).....MANUAL, INSTRUCTION
4-876-352-00	SHEET, PROTECTION
4-905-457-01	CUSHION (LEFT), LOWER
4-905-458-01	CUSHION (RIGHT), LOWER
4-905-459-01	CUSHION (LEFT), UPPER
4-905-460-01	CUSHION (RIGHT), UPPER
4-905-461-01	INDIVIDUAL CARTON

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MC-Service

Sony Corporation

English
85C0668-1
Printed in Japan
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